

DIGITAL EQUIPMENT CORPORATION

education

SUNDAY HERALD TRAVELER

BOSTON, JANUARY 10, 1971—308 PAGES

Westwood Sixth Graders

Pupils 'Talk Back' to Computer

By EDIE BROWN

FO + CAL = FOCAL.

The mathematical equation explains the origin of a unique language, FORMula CALculator, "understood" by a computer used by students in mathematics at the Islington School in Westwood.

Sixth graders at the school are learning to "talk" the language in an attempt to simulate mathematical models, plot curves, and solve other numerical problems.

"It is a supplement, a teaching tool, a way of getting youngsters to be creative and to stimulate them in math areas," explained C. Louis Cedrone, assistant superintendent of schools.

The time-shared computer, a PDP 8-1, is installed at the high school and connected to a time-shared teletype at the Islington School. Once a student masters the FOCAL language, he can punch information

into the teletype. The information is then fed into the computer at the high school and the answers return in a matter of seconds.

"The kids are really enthusiastic about it," said Arthur Gearty, the teacher who has been instructing the students in FOCAL. "They come as early as 45 minutes before school and stay after school for as long as we let them."

Forty-eight students have been programmed in the computer language since the instruction began this fall. Gearty plans to have all the school's 120 students participating in the program by the end of the year.

Some \$2075 in financial support for the program comes from the state department of education for computer education at the elementary level.

The computer at the high school is used in Project LOCAL, a cooperative project offering computer math at the secondary level in five other area towns.

EduSystems —

Expandable, Economical, Easy to Use

EduSystem 10—\$7,390

A complete, *one-user* system with either the BASIC or FOCAL conversational language. The one terminal can service up to 100 students. The system may be used to support such secondary school curriculum material as the CAMP series of textbooks. System includes computer, teleprinter, manuals, textbooks and a starter set of applications programs.

EduSystem 20—\$17,890

A complete five-user *time-sharing* computer system. The terminals can be either local or remote over telephone lines. The system is suitable for student problem-solving, simulations, and some CAI. Languages used are BASIC and FOCAL. System includes computer with 8,192 word memory, 5 teleprinters, manuals, textbooks and applications programs.

EduSystem 30—\$19,440

A *batch* processing system complete with card reader, computer, disk storage and teleprinter. A true, miniature version of giant EDP systems! Cards may either be punched or marked with an ordinary pencil for the optical mark reader. The disk permits huge programs. The system can easily run 500 programs per day. The language used is BASIC and manuals, texts and applications software are included in the low price.

EduSystem 40—\$29,940

A combination of EduSystems 20 and 30. Runs *batch* and five-user *time-sharing*—but not simultaneously. Use the batch capability to expose large numbers of students to the computer and the interactive terminals for running simulations and to challenge and motivate the brighter students.

EduSystem 50-8—\$57,095

A complete, multi-language, resource sharing, time-sharing computer system. BASIC, FOCAL, FORTRAN, PAL-D and more. Eight users can solve problems, run simulations, play roles, learn computer science and receive drill and practice—all simultaneously!

EduSystem 50-16—\$86,195

A 16-user version of EduSystem 50-8. In addition to 262K word disk, and high-speed reader/punch, this system has magnetic tape for program and data storage. A super-minicomputer time-sharing system!

EduSystems 60 through 90

Single-user, time-sharing and batch systems with Super-BASIC and FORTRAN IV. Write for information.

Logic Design and Computer Interfacing Package—\$2,290

Teaches students state-of-the-art logic design using IC's and live computer interfacing. Prerequisite—EduSystem 10.

digital

DIGITAL EQUIPMENT CORPORATION, Maynard, Massachusetts, Telephone: (617) 897-5111 • ARIZONA, Phoenix • CALIFORNIA, Anaheim, Los Angeles, Oakland, Palo Alto • COLORADO, Denver • CONNECTICUT, Meriden • DISTRICT OF COLUMBIA, Washington, (College Park, Md.) • FLORIDA, Orlando • GEORGIA, Atlanta • ILLINOIS, Chicago • INDIANA, Indianapolis • MASSACHUSETTS, Cambridge and Waltham • MICHIGAN, Ann Arbor • MINNESOTA, Minneapolis • MISSOURI, St. Louis • NEW JERSEY, Parsippany and Princeton • NEW MEXICO, Albuquerque • NEW YORK, Centereach (L.I.), New York City, (Englewood, N.J.), and Rochester • NORTH CAROLINA, Durham/Chapel Hill • OHIO, Cleveland and Dayton • OREGON, Portland • PENNSYLVANIA, Philadelphia and Pittsburgh • TENNESSEE, Knoxville • TEXAS, Dallas and Houston • UTAH, Salt Lake City • WASHINGTON, Seattle • AUSTRALIA, Brisbane, Melbourne, Perth and Sydney • CANADA, Edmonton, Alberta; Vancouver, British Columbia; Carleton Place, Ottawa and Toronto, Ontario; and Montreal, Quebec • ARGENTINA, Buenos Aires • BELGIUM, Brussels • ENGLAND, London, Manchester and Reading • FRANCE, Paris • GERMANY, Cologne, Hanover, Frankfurt and Munich • HOLLAND, The Hague • ITALY, Milan • JAPAN, Tokyo • SWEDEN, Stockholm • SWITZERLAND, Geneva and Zurich.